

**REPLACEMENT ABSTRACT**

ABSTRACT

The invention relates to an implantable device in modular-system design for measuring brain parameters. It consists of an electronics unit and a sensor unit integrated therein. The electronics unit with the essential components transmitter, receiver, power supply and control unit is sealed solidly and tightly, it is reusable after its sterilization. The sensor unit has at least one single lumen catheter and the sensors arranged therein for pressure and/or temperature measurement.